

INTERNATIONAL SEARCH REPORT

PCT/GB2004/004907

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/415

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | WO 98/55869 A (SENSOR TECHNOLOGIES, INC; WOLF, DAVID, E) 10 December 1998 (1998-12-10) cited in the application the whole document ----- | 22,25-44 |
| X | WO 00/16099 A (SENSOR TECHNOLOGIES, INC) 23 March 2000 (2000-03-23) cited in the application the whole document ----- -/- | 22,25-44 |

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the International search

4 February 2005

Date of mailing of the International search report

21/02/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| X | <p>MIN W ET AL: "STABILITY AND DETECTION OF RECOMBINANT PRE-PRO-CONCANAVALIN A AFTER CYTOPLASMIC EXPRESSION IN ESCHERICHIA-COLI"</p> <p>1992, FEBS LETTERS, VOL. 301, NR. 3, PAGE(S) 315-318 , XP001204961 ISSN: 0014-5793</p> <p>cited in the application the whole document</p> <p>-----</p> | 22,25-27 |
| X | <p>DINCTURK H BENAN ET AL: "Recombinant pre-pro-Concanavalin A (jack bean) is stable but of low solubility"</p> <p>December 2001 (2001-12), JOURNAL OF BIOSCIENCES (BANGALORE), VOL. 26, NR. 5, PAGE(S) 635-640 , XP009043433 ISSN: 0250-5991</p> <p>the whole document</p> <p>-----</p> | 22,25-27 |
| X | <p>MIN W ET AL: "NON-GLYCOSYLATED RECOMBINANT PRO-CONCANAVALIN A IS ACTIVE WITHOUT POLYPEPTIDE CLEAVAGE"</p> <p>EMBO (EUROPEAN MOLECULAR BIOLOGY ORGANIZATION) JOURNAL, vol. 11, no. 4, 1992, pages 1303-1307, XP001205158 ISSN: 0261-4189</p> <p>cited in the application the whole document</p> <p>-----</p> | 22,25-27 |

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Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 23-24 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 23-24

Present claims 23-24 relate to the use of a buffer defined by reference to a desirable characteristic or property. The claims cover all buffers having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such buffers. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search of said claims was impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the buffer by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search of the claimed matter impossible. Consequently, no meaningful search could be carried out for claims 23-24.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/004907

| Patent document cited in search report | Publication date | | Patent family member(s) | Publication date |
|--|------------------|------------|---|--|
| WO 9855869 | A | 10-12-1998 | AU 8058798 A EP 0986757 A1 US 6232130 B1 WO 9855869 A1 | 21-12-1998 22-03-2000 15-05-2001 10-12-1998 |
| WO 0016099 | A | 23-03-2000 | AU 5918799 A WO 0016099 A1 US 6844166 B1 | 03-04-2000 23-03-2000 18-01-2005 |